



2008-09 Suzuki GSX-650F

Installation Instructions



JUICEBOX PRO[®]
Premium Fuel Controller

PARTS LIST

- | | |
|---|--------------------|
| 1 | Juice Box Pro™ |
| 1 | USB Cable |
| 1 | Top Tune CD-ROM |
| 1 | Installation Guide |
| 2 | Velcro |
| 1 | Alcohol swab |
| 1 | O2 Optimizer |

FOR RACE USE ONLY

DOWNLOAD THE TOPTUNE SOFTWARE
AND LATEST MAPS FROM OUR
WEBSITE:

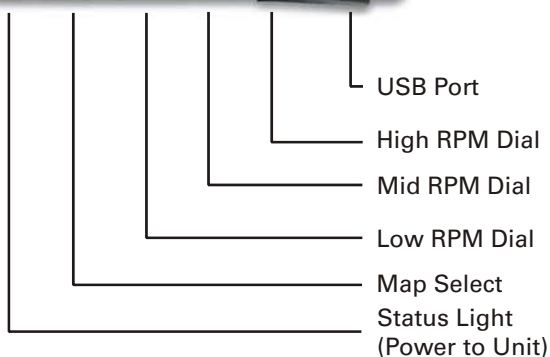
www.twobros.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

401 S. Grand Ave. Santa Ana, CA 92705
(800) 211-2767 www.twobros.com

JUICEBOX PRO[®]

Premium Fuel Controller



Selecting the Map Position

The Juice Box Pro comes loaded with up to ten maps. Using a #1 Phillips screwdriver, turn the map select dial to toggle between the loaded maps. Refer to the map position table below for the maps included in your Juice Box Pro.

Using the RPM Range Dials

The Low, Mid, and High RPM Dials refer to the RPM range, in thirds, of your vehicle. Each dial allows +/- 10% fuel adjustment on top of what fuel changes are done in the map. With the dial facing straight up, there is no additional fuel change. For example, if your vehicle revs to 15,000 RPM:

- the low RPM dial will adjust 0-5000 RPM
- the mid RPM dial will adjust 5001-10000 RPM
- the high RPM dial will adjust 10001-15000 RPM

Using Top Tune

Take your tuning to the next level with the Top Tune software.

Installing the Top Tune Software

- 1 Insert the CD provided into your computer's cd-rom drive. The launch program will run automatically.
If auto-run is disabled, double-click the My Computer icon then double-click the CD drive icon. Double-click TBR TopTune.exe to manually start the CD.
- 2 Click Install Software and follow the on-screen instructions to install the Top Tune software. The Top Tune software and maps will be stored in C:\Program Files\TBR TopTune.
- 3 Click Map Database. All maps will automatically be installed to the C:\Program Files\TBR TopTune\maps folder.

Loading Additional Maps

- 1 Connect the USB cable from the computer to the Juice Box Pro. Verify the cable is fully seated in the Juice Box Pro.
- 2 Run the TopTune software by double-clicking the program icon installed on your desktop or on your start menu.
- 3 Click Open Map File and select a map file.
- 4 Click Send Map. You can send the map to any of the ten map positions.

Altering Maps Using Top Tune

The values in the map represent a percentage of fuel change over stock. A value of 10 in the map indicates at that throttle position and RPM range the vehicle will be 10% richer than stock. If the value is -10, then it would be 10% leaner than stock. You have the ability to fine tune your fuel curve by altering these values. The Top Tune software allows a value of +250 to -100 in each cell.

Position 0	Zero map	
Position 1	Stock exhaust Stock air filter	2009 Suzuki GSX650F
Position 2	Two Brothers slip-on Stock or aftermarket air filter	2009-2010 Suzuki GSX650F

WARNING

The ignition must be turned OFF before installation.

- 1 Remove the seat and left hand side cover.
- 2 Remove the fuel tank.
- 3 Lay the Juice Box Pro in the tail section.
- 4 Route the wiring harness from the Juice Box Pro under the frame crossover and towards the engine along the right hand side of the air box as shown in Figure A.

- 5 Unplug the stock wiring harness from each of the injectors as shown in Figure B.

- 6 Attach the connectors from the Juice Box Pro to the stock injectors and the stock wiring harness as shown in Figure C.
 - blue wire connects to cylinder #1
 - green wire connects to cylinder #2
 - yellow wire connects to cylinder #3
 - orange wire connects to cylinder #4

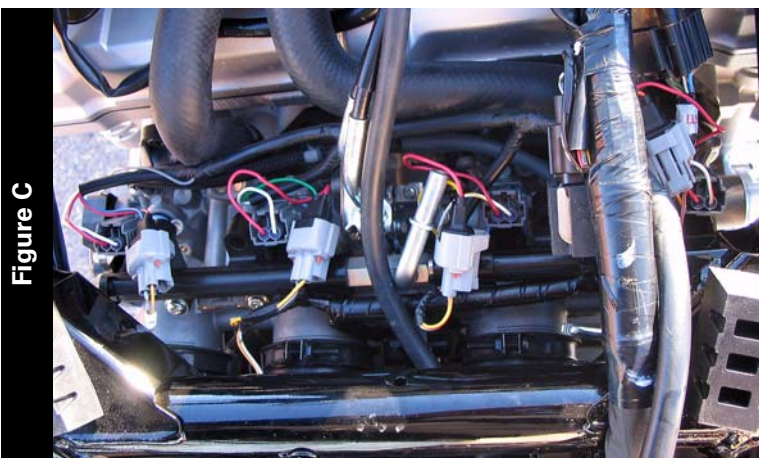
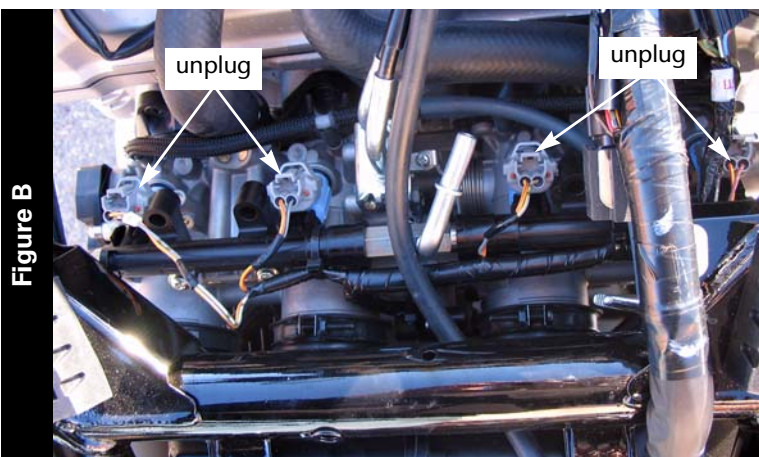
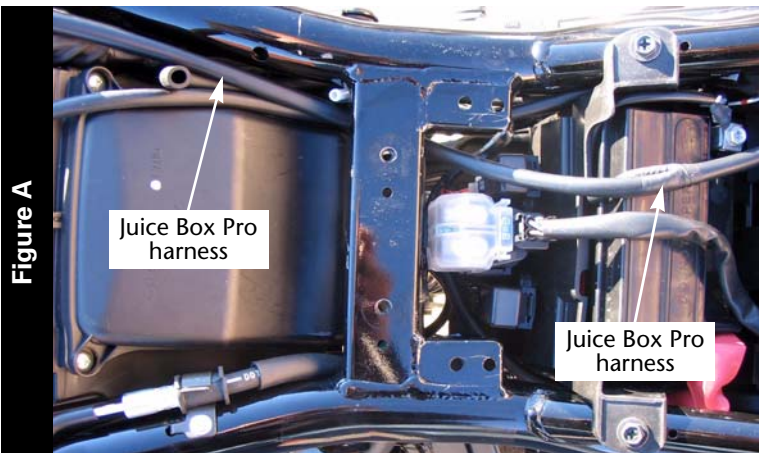
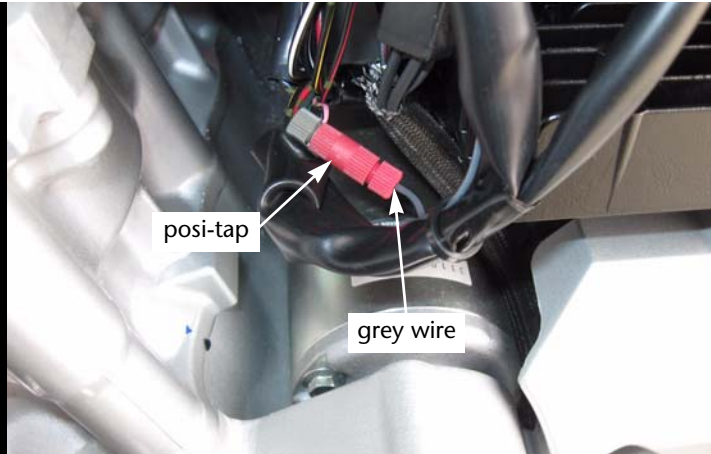


Figure D



- 7 Locate the throttle position sensor (TPS).
The 5-pin TPS connector is located on the left hand side of the throttle bodies.
- 8 Attach the supplied wire tap or posi-tap to the pink wire with a black stripe as shown in Figure D.
- 9 Attach the grey wire from the Juice Box Pro into the posi-tap as shown in Figure D.
It is recommended to use dielectric grease on these connections.
For a cleaner look, you can follow the TPS wire back to a junction where you can hide the wire tap easier.

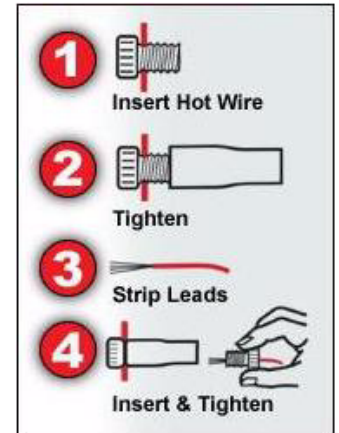
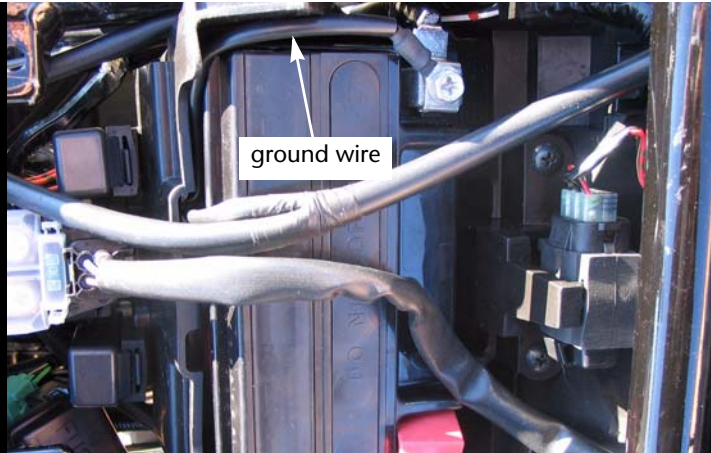


Figure E



- 10 Attach the ground wire from the Juice Box Pro to the negative side of the battery as shown in Figure E.

Figure F



- 11 Using the supplied velcro, secure the Juice Box Pro in the tail section to the inner fender as shown in Figure F.
Make sure to clean both surfaces with the alcohol swab before attaching.

Figure G



- 12 Locate the black 4-pin O2 sensor connector.
The O2 connector is located on the left hand side of the frame next to the fuse box.
- 13 Unplug this connection and attach the O2 optimizer into the stock wiring harness as shown in Figure G.
The stock sensor will not be connected to anything.
- 14 Reinstall the fuel tank, side cover, and seat.